

What is claimed is:

5           1.       A control method of a CCD (Charge-Coupled Device) camera, comprising:

          detecting an illumination of a photographing region to be photographed with a CCD camera;

          setting a photographing mode of the CCD camera on the basis of  
10       comparing the detected illumination with a reference illumination value; and

          controlling a movement of a lens of the CCD camera in accordance with the set photographing mode by loading corresponding pre-stored trace data of the lens.

15           2.       The method of claim 1, wherein the photographing mode is set as a daytime mode when the detected illumination is not less than the reference illumination value.

          3.       The method of claim 1, wherein the photographing mode is set as  
20       a nighttime mode when the detected illumination is not greater than the reference illumination value.

          4.       The method of claim 1, wherein the controlling process for controlling the movement of the lens further comprises the sub-steps of:

25           loading pre-stored first trace data in the daytime mode;

loading pre-stored second trace data in the nighttime mode; and  
controlling a movement of the lens on the basis of the thusly loaded trace  
data.

5           5.       The method of claim 1, wherein the first trace data and the second  
trace data are information for controlling a movement of the lens when the  
photographing mode is converted into the daytime mode and the nighttime mode,  
respectively.

10           6.       The method of claim 5, wherein an object is photographed in a  
visible ray region through an OLPF (Optical Low Pass Filter) in the daytime mode.

15           7.       The method of claim 5, wherein an object is photographed in an  
infrared ray region without passing through an OLPF (Optical Low Pass Filter) in  
the nighttime mode.

            8.       The method of claim 7, wherein the OLPF is included in a lens unit  
of the CCD camera and is mechanically switched in or out of an optical path of the  
lens unit according to the photographing mode.

20           9.       The method of claim 1, wherein the trace data is stored in a  
memory of the CCD camera and is loaded into a control unit of the CCD camera  
upon conversion of the photographing mode.

25           10.       The method of claim 1, wherein the trace data includes values for

compensating a focus error of the lens in accordance with the use or not of an  
OLPF (Optical Low Pass Filter) in the lens.

11. A control method of a CCD (Charge-Coupled Device) camera,  
5 comprising:

detecting an illumination of a photographing region to be photographed by  
a CCD camera;

setting a photographing mode of the CCD camera to a daytime mode or a  
nighttime mode by judging whether the detected illumination is less or greater than  
10 a reference illumination value;

loading first trace data pre-stored in a memory in the daytime mode;

loading second trace data pre-stored in the memory in the nighttime mode;

and

controlling a movement of a lens of the CCD camera on the basis of the  
15 first trace data and the second trace data.

12. The method of claim 11, wherein the daytime mode is set when  
the detected illumination is not less than the reference illumination value.

13. The method of claim 11, wherein the nighttime mode is set when  
the detected illumination is not greater than the reference illumination value.

14. The method of claim 11, wherein an object is photographed in a  
visible ray region through an OLPF (Optical Low Pass Filter) of the lens in the  
25 daytime mode.

15. The method of claim 11, wherein an object is photographed in an infrared ray region without passing through an OLPF (Optical Low Pass Filter) of the lens in the nighttime mode.

16. The method of claim 15, wherein the first trace data and the second trace data are for compensating a focus error in accordance with the use or not of the OLPF.

17. The method of claim 11, wherein the first trace data and the second trace data is pre-stored in a memory as a map format.

18. The method of claim 11, wherein the first trace data is for compensating a focus error of the lens varied through an OLPF (Optical Low Pass Filter) in the lens in the daytime mode.

19. The method of claim 18, wherein the OLPF is included in a lens unit of the CCD camera and is mechanically switched in and out of an optical path of the lens.

20. The method of claim 11, wherein the second trace data is for compensating a focus error of the lens varied by not passing through the OLPF in the nighttime mode.

21. A control method of a CCD (Charge-Coupled Device) camera,

comprising:

detecting an illumination of a photographing region to be photographed by a CCD camera;

converting a photographing mode of the CCD camera into a daytime mode or a nighttime mode by judging whether the detected illumination is not less or greater than a reference illumination value;

loading first trace data for controlling a lens of the CCD camera so as to photograph the photographing region through an OLPF (Optical Low Pass Filter) when the photographing mode is converted into the daytime mode;

loading second trace data for controlling the lens of the CCD camera so as to photograph the photographing region without imaged light of the photographing region passing through the OLPF when the photographing mode is converted into the nighttime mode; and

adjusting a focus of the lens of the CCD camera on the basis of the loaded trace data.

22. The method of claim 21, wherein the first trace data and the second trace data are for compensating a focus error in accordance with the use or not of the OLPF.

23. The method of claim 21, wherein the first trace data loading process is performed in the daytime mode.

24. The method of claim 21, wherein the second trace data loading process is performed in the nighttime mode.

